

Range and Spaceport Science and Technology Workshop

Colorado Springs, CO - January 10-13, 2005

SCHEDULE		
Monday, January 10, 2005		Room
1:00 p.m. - 5:30 p.m.	Air Force Meeting - DoD, SETAs, FFRDCs, Chairs, and Sub-Group Chairs are invited to attend - AFSPC S&T Corporate Process (Lt Col Kyle Charles , HQ AFSPC/XPXT) - ARTWG/ASTWG brief (Mr. Darin Skelly , NASA KSC) - AFSPC/XPX: Launch Ranges and Spaceports in the Integrated Planning Process (Mr. Keith Messenger , HQ AFSPC/XPXK, Scitor) - Integrated Network Enhancement Telemetry (iNET) (Mr. Darrell Ernst , MITRE) - Technology Overview (Dr. Anhtuan Ngo , AFRL/VACA; Lt Col Robert Johnson , AFRL/VACA)	Salon D
2:00 p.m. - 6:00 p.m.	Conference Registration	Pre-Assembly
7:00 p.m. - 9:00 p.m.	Welcome Reception (Free to Conference Participants)	Aspen Leaf

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SCHEDULE		
Tuesday, January 11, 2005		Room
7:30 a.m. - 8:00 a.m.	Continental Breakfast & Conference Registration	Pre-Assembly
8:00 a.m. - 8:05 a.m.	Introduction	
8:05 a.m. - 8:15 a.m.	Conference Opening Major General Roosevelt Mercer, Jr. ; Director of Plans and Programs; HQ AFSPC/XP	Ballroom EFGH
8:15 a.m. - 9:25 a.m.	ARTWG/ASTWG/FIRST Status and Way Ahead Major Jennifer A. Draper ; Chief, Science and Technology Integration and AFSPC Chair, Advanced Range Technology Working Group; HQ AFSPC/XPXT Mr. Darin Skelly ; Chief (Acting), Strategic Technology Formulation Office and NASA Chair, Advanced Range Technology Working Group; NASA KSC Mr. Keith Britton ; Chair, Advanced Spaceport Technology Working Group; Technology Formulation Office; NASA KSC	Ballroom EFGH
9:25 a.m. - 9:55 a.m.	NASA Strategic Planning Efforts (APIO) Mrs. Rita Willcoxon ; Deputy Director of Spaceport Engineering and Technology; NASA Lead for Capability Roadmap Development; NASA KSC	Ballroom EFGH
9:55 a.m. - 10:25 a.m.	Morning Break	Pre-Assembly
10:30 a.m. - 12:00 p.m.	Sub-Group Breakouts Meet and greet, review technologies of interest to sub-group, ensure coverage of technology breakouts <ul style="list-style-type: none"> - Advanced Servicing (Mr. Kevin Ingoldsby, Booz-Allen-Hamilton) - Communication Architecture (Mr. Pradipta Shome, FAA AST) - Telemetry (Mr. Don Sather, Aerospace) - Decision Making Support (Mr. Keith Britton, NASA KSC) - Tracking and Surveillance (Mr. Barton Bull, NASA GSFC) - Inspection & System Verification (Mr. Cary Peaden, NASA KSC) - Transportation, Handling, and Assembly (Mr. Roelof Schuiling, NASA KSC) - Monitor, Command and Control (Mr. Rodney Davis, Command and Control Technologies, Corp.) - Planning, Documentation, Analysis, Scheduling, Coordination of Assets, and Learning (Ms. Mary Hall, NASA KSC) 	Ballroom EFGH Ballroom EFGH Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2 Eagle's Nest 1 Aspen Leaf Eagle's Nest 2
12:00 p.m. - 1:00 p.m.	Lunch Break	Ballroom ABCD

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SCHEDULE		
Tuesday, January 11, 2005 (Continued)		Room
1:00 p.m. - 2:30 p.m.	Space Standards Briefing & Discussion - Mr. Adrian Hook ; Chairman, US Technical Advisory Group and U.S. Representative to ISO/TC20/SC13, Space Data and Information Transfer Systems - Mr. Fred Slane ; President, Space Infrastructure, Inc. & Space Infrastructure Foundation, Inc. - Mr. Bob Durst ; MITRE - Mr. Larry Schultz ; Chairman, ISO/TC20/SC14, Operations and Ground Support; NASA KSC 1. Organization of international and national space standards 2. Space standards work items of interest: - Space Link Services, Space Internetworking Services, Onboard Interfaces and Spacecraft Control - Spacecraft/Launch Vehicle Interfaces, Ground Systems and Support - AIAA/ANSI Standards for Space	Ballroom EFGH
2:30 p.m. - 2:45 p.m.	Afternoon Break	Pre-Assembly
2:45 p.m. - 4:45 p.m.	Technology Breakouts I 1. Standards (Need Telecon) (See Above) 2. Displays (Mr. Steve Skladanek , Lockheed Martin Space Systems Company) 3. Distribution of High-rate Voice, Video, Data; Extracting Real-time Data Within Latency and Link Margins (Mr. Erik Denson , NASA KSC) 4. Execute Command and Control of Range Assets and Flight Vehicles (2nd Lt Aaron Landenberger , ESC/ASIO) 5. Autonomic Logistics: applying intelligent systems to logistics (Mr. Mike Callinan , Lockheed Martin)	Rockrimmon 1 Ballroom EFGH Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2
4:45 p.m. - 5:15 p.m.	Re-Group	Ballroom EFGH
6:30 p.m. - 9:00 p.m.	Dinner 6:30 p.m. Social Hour 7:00 p.m. Dinner	Aspen Leaf

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SCHEDULE		
Wednesday, January 12, 2005		Room
7:30 a.m. - 8:00 a.m.	Continental Breakfast & Conference Registration	Pre-Assembly
8:00 a.m. - 8:15 a.m.	Conference Schedule Overview	Ballroom EFGH
8:15 a.m. - 9:15 a.m.	Range Modernization Status and Schedule Colonel Michael Coolidge ; Deputy Materiel Wing Director; Satellite and Launch Control Systems Program Office; SMC/RN	Ballroom EFGH
9:15 a.m. - 9:45 a.m.	Space and Air Traffic Management System (SATMS) Ms. Shelia Helton-Ingram ; Transportation System Analyst; Commercial Space Transportation; FAA/AST	Ballroom EFGH
9:45 a.m. - 10:00 a.m.	Morning Break	Pre-Assembly
10:00 a.m. - 12:00 p.m.	Technology Breakouts II 1. Modeling and Simulation (Mr. Cary Peaden , NASA KSC) 2. Error Correction and Object Recognition (Dr. Jim Simpson , NASA KSC) 3. Nanotechnologies (Mr. Dennis Lobmeyer , NASA KSC) 4. Commerce Development (Ms. Mary Hall , NASA KSC)	Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2
12:00 p.m. - 1:00 p.m.	Lunch Break	Ballroom ABCD
1:00 p.m. - 2:45 p.m.	Technology Breakouts III 1. Data Handling: data fusion, extraction, and faster computing (Mr. Bob Ferrell , NASA KSC) 2. Space Tourism Development, Community and Education Outreach (Mr. Keith Britton , NASA KSC and Mr. Tim Huddleston , Aerospace Development Center) 3. Clean Room Technologies (Mr. Darin Skelly , NASA KSC) 4. Antenna Technology (Mr. Wayne Powell , NASA/WFF)	Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2
2:45 p.m. - 3:00 p.m.	Afternoon Break	Pre-Assembly
3:00 p.m. - 5:00 p.m.	Technology Breakouts IV 1. Scheduling (Mr. Darin Skelly , NASA KSC) 2. Data Processing (Mr. Guy Bedette , NASA KSC) 3. Spaceport Transformational Era Needs (Near Term) (Mr. Barton Bull , NASA GSFC) 4. Documentation and Learning: AI, machine learning, knowledge capture (Mr. Bob Ferrell , NASA KSC) 5. Spaceport and Range Security Technologies (Mr. Hal Cornelius , ECR - NAWC-WD, Titan Systems)	Ballroom EFGH Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2
5:00 p.m. - 5:15 p.m.	Re-Group	Ballroom EFGH

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SCHEDULE		
Thursday, January 13, 2005		Room
7:30 a.m. - 8:00 a.m.	Continental Breakfast	Pre-Assembly
8:00 a.m. - 8:15 a.m.	Conference Schedule Overview	Ballroom EFGH
8:15 a.m. - 9:00 a.m.	National Space Transportation Policy Maj Jennifer Draper ; Chief, Science and Technology Integration; HQ AFSPC/XPXT	Ballroom EFGH
9:00 a.m. - 9:45 a.m.	Autonomous Flight Safety System and Low Cost TDRSS Transponder Mr. Barton Bull ; Range and Mission Management Organization Office; Wallops Flight Facility; NASA GSFC	Ballroom EFGH
9:45 a.m. - 10:00 a.m.	Morning Break	Pre-Assembly
10:00 a.m. - 12:00 p.m.	Technology Breakouts V 1. Integrated Health Management (Mr. Payl Mackey , NASA KSC) 2. Space Cargo Technologies (Mr. Roelof Schuiling , NASA KSC) 3. Inspection and Checkout Technologies (Dr. David Bartine , NASA KSC) 4. Robotic/Automated System Technologies (Mr. Dennis Lobmeyer , NASA KSC)	Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2
12:00 p.m. - 1:00 p.m.	Lunch Break	Ballroom ABCD
1:15 p.m. - 2:30 p.m.	Sub-Group Re-Group Review technology roadmaps, determine if update is necessary, assess completeness of coverage - Advanced Servicing (Mr. Kevin Ingoldsby , Booz-Allen-Hamilton) - Communication Architecture (Mr. Pradipta Shome , FAA AST) - Telemetry (Mr. Don Sather , Aerospace) - Decision Making Support (Mr. Keith Britton , NASA KSC) - Tracking and Surveillance (Mr. Barton Bull , NASA GSFC) - Inspection & System Verification (Mr. Cary Peaden , NASA KSC) - Transportation, Handling, and Assembly (Mr. Roelof Schuiling , NASA KSC) - Monitor, Command and Control (Mr. Rodney Davis , Command and Control Technologies, Corp.) - Planning, Documentation, Analysis, Scheduling, Coordination of Assets, and Learning (Ms. Mary Hall , NASA KSC)	Ballroom EFGH Ballroom EFGH Rockrimmon 1 Rockrimmon 2 Eagle's Nest 1 Eagle's Nest 2 Eagle's Nest 1 Ballroom ABCD Eagle's Nest 2
2:30 p.m. - 2:45 p.m.	Afternoon Break	Pre-Assembly
2:40 p.m. - 4:40 p.m.	Sub-Group Reports (10 minutes each group)	Ballroom EFGH
4:40 p.m. - 5:00 p.m.	Closing	Ballroom EFGH